

**Notice of Allowability**

Application No.

09/809,668

Examiner

Miranda Le

Applicant(s)

YASUHIRO TERAYAMA

Art Unit

2167

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Amendment filed 09/12/2005.
2. ☒ The allowed claim(s) is/are 1,6-14, 17-21 and 24-32, now renumbered as 1-24.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some\* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |   |   |
|---|---|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892)  | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)           |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                | 6. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____ |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br>Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment                   |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material          | 8. <input type="checkbox"/> Examiner's Statement of Reasons for Allowance             |
|   | 9. <input type="checkbox"/> Other _____   |

### EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Jay H. Maioli on May 28, 2005.

2. The application has been amended as follows:

**In the claim:**

- Cancel claims 2, 5.
- Claim 1 has been amended as:

A computer-implemented file conversion method for extracting, from an HTML file acquired through the internet and composed of a plurality of pieces of data displayable on a display unit and with a start and an end of each piece of data indicated by respective identifiers in the form of tags, data displayable on a limited-capability device, in accordance with the identifiers, and for outputting the extracted data to the limited-capability device, the file conversion method comprising:

- a step of determining what characteristic of the HTML file is to be converted;
- a step of detecting the tags by reading the file;
- a step of determining whether the data indicated by the detected tags is displayable on the limited-capability device;

a step of extracting the data, the start and the end of which are indicated by the detected tags and which is determined to be displayable on the limited-capability device;

a step of displaying on the display unit the extracted data to be shaped for display on the limited-capability device;

a step of reading out a stored conversion rule that is specific to each set of tags and that has having shaping conditions including character count per line and image size limitations;

a step of converting, based on the read-out conversion rule, the extracted data to meet the limitations for display on the limited-capability device; and

a step of outputting an output file that is newly created from the extracted data that has been shaped in the step of shaping, as a different file from the HTML file, to the limited-capability device for display;

wherein the step of extracting the data is performed by referencing a processing condition data area of a memory file that defines the tags of the HTML data that is displayable on the limited-capability device, and

wherein the processing condition data area has a data structure containing a plurality of categories, and wherein the file conversion method further comprises selecting the processing condition data to be used, based on the category selected from among the plurality of categories.

- Claim 12 has been amended as:

A converter for extracting, from an HTML file acquired through the internet and composed of a plurality of pieces of data displayable on a display unit and with a start and an end of each piece of data indicated by respective identifiers in the form of tags, data displayable on a

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connected limited-capability device, and for outputting the extracted data to the limited-capability device, the file converter comprising:

means for selecting a characteristic of the HTML file that is to be converted;

file storage means for storing the HTML file;

detector means for detecting the tags corresponding to the selected characteristic that indicates an area of the data

to be displayed on the limited-capability device from the HTML file stored in said HTML file storage means;

extractor means for extracting, from said HTML file, the data with the start and the end thereof indicated in accordance with the identifier detected by the detector means, wherein the extracted data is one of a map, a coupon, and address information,

wherein the data is extracted by referencing a processing condition data area of a memory file that defines the tags of the HTML data that is displayable on the limited-capability device,  
and

wherein the processing condition data area has a data structure containing a plurality of categories, and the processing condition data to be used is selected based on the category selected from among the plurality of categories;

convertor means for converting date of the HTML file that is between the tags according to a stored predetermined conversion rule for the tags;

output means for outputting the extracted data to the limited-capability device, whereby the limited-capability device displays on a screen thereof one of the map, the coupon, and the address information; and

control means for controlling the detector means to detect the tags indicating the start and the end of the displayable data for the purpose of converting the data displayable on the limited-capability device from said HTML file stored in said file storage means based on the stored predetermined conversion rule having shaping conditions, for controlling said extractor means to extract, as a new output file with the selected characteristic having been converted, data including the start and the end indicated by the tags from said HTML file, and for controlling said output means to output the new output file to the limited-capability device for display.

- Cancel claims 22, 23.
- Claim 24 has been amended as:

A file display system comprising a first apparatus for receiving an HTML file including a plurality of pieces of data, displayable on a display unit, with the start and the end of each piece of data indicated by respective identifiers in the form of tags, and a second apparatus having a throughput lower than that of the first apparatus and receiving and displaying data into which the first apparatus converts the HTML file, wherein the first apparatus comprises:

means for selecting a characteristic of the HTML file that is to be converted;

storage means for storing the HTML file;

detector means for detecting the tags that indicate an area of the data that is to be processed by the second apparatus, from the HTML file stored in the storage means;

extractor means for extracting, from the input file, the data which is detected by the detector means and is processed into data processable by the second apparatus, wherein the extracted data is one of a map, a coupon, and address information,

wherein the data is extracted by referencing a processing condition data area of a memory file that defines the tags of the HTML data that is displayable on the limited-capability device, and

wherein the processing condition data area has a data structure containing a plurality of categories, and the processing condition data to be used is selected based on the category selected from among the plurality of categories;

convertor means for converting the extracted data of the HTML file that is between the tags according to a stored predetermined conversion rule for the tags into the data that is processable by the second apparatus;

an output means for outputting the data, which has been converted to be processable by the second apparatus, to the second apparatus; and

control means for controlling the storage means to store the HTML file input thereto in the storage means, for controlling the detector means to detect the tags that indicate, from the HTML file stored in the storage means, data that can be processed by the second apparatus, for controlling the extractor means to extract the data that is converted by the convertor means in accordance with the identifier detected by the detector means, and for controlling the output means to output the data that has been processed by the processing means based on the selected characteristic; and

wherein the second apparatus comprises:

receiver means for receiving the data output by the first apparatus; and

display means for displaying on a limited-capability display the data received by the receiver means in the form of one of the map, the coupon, and the address information.

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3. The following is an examiner's statement of reasons for allowance:

The present invention is directed to a system that will permit a portable electronic device, such as a pager or a cellular telephone with having limited display capability, to display or portions of entire pages of information that might be downloaded from the internet.

Claims 1, 12, 24 identify the uniquely distinct feature of :

a step of converting, based on the read-out conversion rule, the extracted data to meet the limitations for display on the limited-capability device; and

a step of outputting an output file that is newly created from the extracted data that has been shaped in the step of shaping, as a different file from the HTML file, to the limited-capability device for display;

wherein the step of extracting the data is performed by referencing a processing condition data area of a memory file that defines the tags of the HTML data that is displayable on the limited-capability device, and

wherein the processing condition data area has a data structure containing a plurality of categories, and wherein the file conversion method further comprises selecting the processing condition data to be used, based on the category selected from among the plurality of categories.

The closest prior art, Lektion et al. (U.S. Patent No. 6,765,596), shows a substantially similar methods, systems, for improving interactions with users of pervasive computing devices such as personal digital assistants, Web-enabled cellular phones, Web appliances, wearable computing devices that are specifically adapted for use on devices with limited display space. However, Lektion et al. fail to anticipate or render the above-cited limitations obvious.

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4. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance".

*Conclusion*


5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Miranda Le whose telephone number is (571) 272-4112. The examiner can normally be reached on Monday through Friday from 8:30 AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John E. Breene, can be reached on (571) 272-4107. The fax number to this Art Unit is (571) 273-8300.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 305-3900.



Miranda Le  
September 29, 2005



ZEPETA ROBINSON  
PRIMARY EXAMINER